PADMIL KHANDELWAL

(646) 207-3693 | pkhandel@andrew.cmu.edu | Pittsburgh, PA
https://www.linkedin.com/in/padmil | https://github.com/padmilkhandelwal

EDUCATION

Carnegie Mellon University, USA *Dec,2020*

Master's in Information Systems management (GPA 3.77/4)

- **Courses** : Applied Data Science, Distributed Systems, Agile Methods, Data Focused Python, Statistics, Software Engineering for AI Enabled Systems , Object Oriented Programming in Java ,Economic Analysis
- **Teaching Assistant** : Information Systems Consulting

University of Petroleum and Energy Studies, India (GPA 3.32/4) *June,2017*

Bachelor's in Computer Science

SKILLS

Analytics: Python(Numpy, Pandas, nltk, Scikit, Jupyter, Colab), Tableau, PowerBI, MS Excel, Google Analytics,R+Shiny , IBM Watson
Languages: Python, Java, JavaScript
Cloud and DevOps: AWS, Google Cloud, IBM Cloud, Cloud Foundry, Docker, Kubernetes, SAP Hana XSA
Web Technologies Programming and Tools: Angular, React+Redux, Immutable.js, Node.js,Express.js, HTML/CSS, J2EE, Flask, Django
Databases: SQL (Oracle, PostgreSQL, Teradata, DB2), NoSQL(MongoDB, Cassandra, Neo4j), Bigdata(Spark), Kafka
Functional Skills: Agile, Scrum, Lean Product Management, Wireframing, Data Analytics, Machine Learning, Big Data, DevOps

PROFESSIONAL EXPERIENCE

IBM | Cognitive Engineer Senior Consultant (Data Scientist) Intern, USA *June,2020 – Aug,2020*

- Created a **web application** deployed on IBM Cloud using Cloud Foundry that scraps authenticated websites using **Robotic Process Automation** tool puppeteer (Node.js) , handling 80,000 searches per week by replacing Google's Enterprise Search engine
- Developed a **propensity model** to predict if customers will default on a bill using Random Forest Classifier with 93% accuracy
- Implemented a Service Orchestration Engine that initiates **Asynchronous chats** with predicted high-risk customers for financial assistance through SMS (Twilio) , Watson Assistant Chatbot + NLU with a potential to save > $500,000 in uncollectible receivables
- Created a **Computer Vision** tool that uses Resnet 152 Deep Learning model in PyTorch to detect face mask from live video streams using a web app built on Django to help in following Covid-19 guidelines for various retails stores.

Larsen & Toubro Infotech Ltd | Software Engineer (Full Stack), India *July,2017 -June,2019*

- **Designed** data-wrangling feature on Angular to perform **data engineering** and assisted analytics on Terabytes of unstructured & structured data ; creating cognitive insights to help business users in data driven decision making
- **Led** a team of 5 and implemented a **business intelligence** feature using D3,echarts on SPA Angular web-application ; querying Spark RDDs for user created **dashboards** & **reports** ; shrinking time consumed to create graphs increasing user lock-in
- Implemented an **automatic testing** suite using Selenium & initiated **Vulnerability testing** for Single Sign on production website

Incredible Technologies Pvt Ltd | Business Intelligence Intern, India *June,2016 – July,2016*

- **Designed** a **recommendation system** for bikes based on hybrid filtering; by correlation, clustering of users and items with Python and data from Google Analytics; sales increased by 200+ bikes
- **Automated forecasting** of eCommerce firm's sales target by time series analysis for **prediction** (ARIMA) for teams across 4 cities based on metrics like Revenue per agent, sell-through rate with R; cutting down reporting time by 85%

RESEARCH PROJECTS

Song Recommendation Engine using Lyrics *May,2020*

- Created content-based **recommendation engine** that uses Topic Modelling (LDA) on song lyrics of one million songs to create user profiles and **predict** what songs the user will listen to; resulted in accuracy of 81%

Natural Language Processing on IMDB Movie Reviews Dataset *Feb,2020*

- Implemented multinomial naive Bayes **classifier** in Python on >50000 reviews to **predict sentiment** by stemming and labeling noisy data using **nltk**, pandas, with 75% accuracy

Analyzing Application Dependencies for Transformation RFPs *Dec,2017*

- Created a web analytics tool to visualize **dependencies** required to reengineer Java, .Net and Javascipt projects using Neo4j and Node.js by GraphQL ad-hoc queries, to reduce time for transformation RFPs by 23%

Decrypting Trends via Market Basket Analysis *Dec,2015*

- Found patterns in a retail store dataset with 30,000+ transactions leading team of 4 by Association Rule Mining and Apriori Algorithm ; planned bundles & placement tactics; increased sales by 15% on Java and SQL

LEADERSHIP AND AWARDS

- **Licensed Scrum Product Owner,** Scrum Inc *May,2020*
- **Licensed Scrum Master,** Scrum Inc *May,2020*
- **Big Data and Machine Learning- Google Cloud ,** Coursera *July,2020*
- **Certified Business Analytics Specialist,** IBM *May,2017*
- **Certified Cloud Practitioner**, AWS *Aug,2020*